

## ABSTRACT

A light illuminating apparatus used for a laser annealing apparatus includes a first light splitting unit (16) and a second light splitting unit (20) for splitting a sole laser beam into  $n$  laser beams, and a synthesis unit (21) for synthesizing an  $m$ 'th laser beam, radiated from the first light splitting unit (16), and an  $m$ 'th laser beam radiated from the second light splitting unit (20), to each other, where  $m$  is an integer not less than 1 and not larger than  $n$ . The first light splitting unit (16) and the second light splitting unit (20) are formed by the same optical components and are arrayed inverted with respect to each other.